

IN THE CLAIMS


Please amend claims 1, 12 and 18-24, as follows:

1           1. (Twice Amended) An electrophotographic developing type reproduction apparatus,  
2    comprising:  
3            data transmitting means for generating converted data by converting input data, to  
4    be printed as video data, in accordance with a first clock signal, and for transmitting the converted  
5    data in response to a horizontal synchronization signal exhibiting a predetermined time interval;  
6            chopping means for providing chopped data by dividing the converted data from said  
7    data transmitting means in accordance with a second clock signal; and  
8            printing control means for providing beam data in response to said chopped data, for  
9    controlling printing of the video data by generating electrical signals to control generation of a  
10   [light] laser beam by a light source element[, and for];  
11           said print control means generating said horizontal synchronization signal in  
12   correspondence with a beam detection signal derived from the [light] laser beam by the light source  
13   element.

1           12. (Twice Amended) A method for controlling a [light] laser signal in an  
2    electrophotographic developing type reproduction apparatus, said method comprising the steps of:  
3            generating converted data by converting input data to be printed into video data, in  
4    accordance with a first clock signal, and for transmitting the converted video data in response to a  
5    horizontal synchronization signal exhibiting a predetermined time interval;  
6            generating chopped data by dividing the converted data in dependence upon a second  
7    clock signal;

8 supplying beam data for controlling generation of said ~~[[light]]~~ laser signal by a light  
9 source element in response to said chopped data; and  
10 generating said horizontal synchronization signal in dependence upon a beam  
11 detection signal obtained by detecting said ~~[[light]]~~ laser signal.

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1 ~~[18]~~ 17. (Amended) An apparatus for printing video data, comprising:  
2 data bus means having a first data line for providing input video data and a second  
3 data line for providing dividing ratio data;  
4 clock signal generating means for generating a first clock signal and for generating  
5 a second clock signal, said second clock signal exhibiting a characteristic depending upon said  
6 dividing ratio data;  
7 data transmitting means for converting said input video data into serial video data  
8 in response to said first clock signal, and for transmitting said serial video data in response to a  
9 horizontal synchronization signal;  
10  logic means for providing chopped video data in dependence upon said serial video  
11 data and said second clock signal;  
12 printing control means for generating beam data in response to said chopped video  
13 data; and  
14 beam scanning means for providing a laser beam for defining images corresponding  
15 to said beam data; [and for]  
16 said beam scanning means generating a beam detection signal derived from scanning  
17 of said laser beam;  
18 said printing control means generating said horizontal synchronizing signal in  
19 dependence upon said beam detection signal.

1       ~~[19]~~ 18. (Amended) The apparatus of claim [18] 17, comprised of generating said first clock  
2       signal with a frequency less than said second clock signal.

1       ~~[20]~~ 19. (Amended) The apparatus of claim [18] 17, comprised of generating said first clock  
2       signal with a frequency equal to said second clock signal.

1       ~~[21]~~ 20. (Amended) The apparatus of claim [18] 17, comprised of said clock signal  
2       generating means comprising means for changing said characteristic of said second clock signal in  
3       correspondence with changes in said dividing ratio data.

C3  
and  
1       ~~[22]~~ 21. (Amended) The apparatus of claim [18] 17, comprised of said clock signal  
2       generating means comprising:  
3               first means for generating a local clock signal; and  
4               second means for generating said second clock signal by dividing a frequency of said  
5       local clock signal in dependence upon said dividing ratio data.

1       ~~[23]~~ 22. (Amended) The apparatus of claim [18] 17, comprised of said clock signal  
2       generating means comprising:  
3               means for generating a local clock signal exhibiting a first plurality of pulses  
4       characterized by a local frequency;  
5               first means for generating said first clock signal by dividing pulses of said local clock  
6       signal to provide a second plurality of pulses characterized by a second frequency; and  
7               second means for generating said second clock signal by dividing said pulses of said  
8       local clock signal in dependence upon said dividing ratio data, to provide a third plurality of pulses  
9       characterized by a third frequency established in dependence upon said dividing ratio data.

1 [24] 23. (Amended) An apparatus for printing video data, comprising:

2 data bus means having a first data line for providing input video data and a second  
3 data line for providing dividing ratio data;

4 clock signal generating means for generating a first clock signal and for generating  
5 a second clock signal, said second clock signal exhibiting a characteristic depending upon said  
6 dividing ratio data, said clock signal generating means comprising:

7 means for generating a local clock signal exhibiting a first plurality of pulses

8 characterized by a local frequency;

9 first means for generating said first clock signal by dividing pulses of said

10 local clock signal to provide a second plurality of pulses

11 characterized by a second frequency; and

12 second means for generating said second clock signal by dividing said pulses

13 of said local clock signal in dependence upon said dividing ratio data,

14 to provide a third plurality of pulses characterized by a third

15 frequency established in dependence upon said dividing ratio data;

16 data transmitting means for converting said input video data into serial video data  
17 in response to said first clock signal, and for transmitting said serial video data in response to a  
18 horizontal synchronization signal;

19 logic means for providing chopped video data in dependence upon said serial video  
20 data and said second clock signal;

21 printing control means for generating beam data in response to said chopped video  
22 data; and

23 beam scanning means for providing a laser beam for defining images corresponding  
24 to said beam data and for generating a beam detection signal derived from scanning of said laser  
25 beam;  
26 said printing control means generating said horizontal synchronizing signal in  
27 dependence upon said beam detection signal.

1 [25] 24. (Amended) A method for controlling a ~~[[light]]~~ laser signal in an  
2 electrophotographic developing type reproduction apparatus, said method comprising the steps of:  
3 generating converted data by converting input data to be printed into video data, in  
4 accordance with a first clock signal, and for transmitting the converted video data in response to a  
5 horizontal synchronization signal exhibiting a predetermined time interval;  
6 generating chopped data by dividing the converted data in dependence upon a second  
7 clock signal, the second clock signal having a frequency higher than the first clock signal wherein  
8 the second clock signal being an integer multiple of a frequency of the first clock signal, the  
9 chopped data being generated by applying the converted data to a first input port of an AND gate  
10 data and applying the second clock signal to a second input port of the AND gate, said chopped data  
11 being output from an output port of said AND gate;  
12 changing a characteristic of the second clock signal in response to a selection made  
13 by a user of the reproduction apparatus;  
14 supplying beam data for controlling generation of said ~~[[light]]~~ laser signal by a light  
15 source element in response to said chopped data; and  
16 generating said horizontal synchronization signal in dependence upon a beam  
17 detection signal obtained from said ~~[[light]]~~ laser signal.

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